

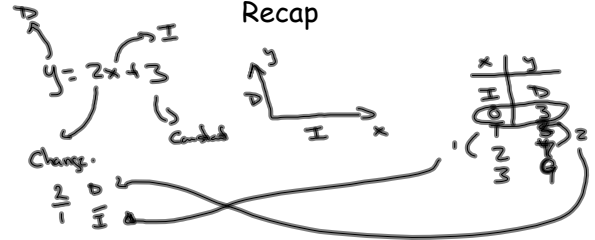
4.3

Another Form of the Equation for a Linear Relation

LESSON 6

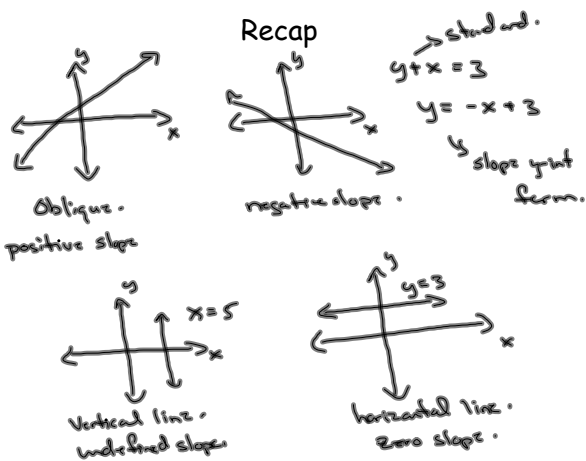
Jan 21-8:53 AM

Recap



Mar 20-3:19 PM

Recap



Mar 20-3:19 PM

Connect

EXAMPLE 2:

For the equation $3x - 2y = 6$

- Make a table of values for $x = -4, 0$, and 4
- Graph the equation.

x	y
-4	-9
0	-3
4	3

Step 1 - Substitute each value of x , then solve for y

$$\begin{aligned} 3x - 2y &= 6 \\ 3(-4) - 2y &= 6 \\ -12 - 2y &= 6 \\ -2y &= 6 + 12 \\ -2y &= 18 \\ \frac{-2y}{-2} &= \frac{18}{-2} \\ y &= -9 \end{aligned}$$

$$\begin{aligned} 3x - 2y &= 6 \\ 3(0) - 2y &= 6 \\ -2y &= 6 \\ \frac{-2y}{-2} &= \frac{6}{-2} \\ y &= -3 \end{aligned}$$

$$\begin{aligned} 3x - 2y &= 6 \\ 3(4) - 2y &= 6 \\ 12 - 2y &= 6 \\ -2y &= 6 - 12 \\ -2y &= -6 \\ \frac{-2y}{-2} &= \frac{-6}{-2} \\ y &= 3 \end{aligned}$$

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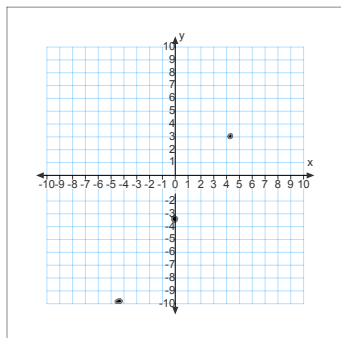
Connect

EXAMPLE 2:

Step 2 - Make a table of values with the answers from step 1.

X	Y
-4	-9
0	-3
4	3

Step 3 - Plot the points on a grid. Join the points.



Practice

YOU TRY:

For the equation $2x + y = 6$

- Make a table of values for $x = -3, 0,$ and 3
- Graph the equation.

$$\begin{array}{r} x \\ -3 \end{array} \begin{array}{r} y \\ 12 \end{array}$$

Step 1 - Substitute each value of x , then solve for y

$$\begin{array}{l} 2x + y = 6 \\ 2(-3) + y = 6 \\ -6 + y = 6 \\ y = 6 + 6 \\ y = 12 \end{array}$$

$$\begin{array}{l} 2x + y = 6 \\ 2(0) + y = 6 \\ y = 6 \end{array}$$

$$\begin{array}{l} 2x + y = 6 \\ 2(3) + y = 6 \\ 6 + y = 6 \\ y = 6 - 6 \\ y = 0 \end{array}$$

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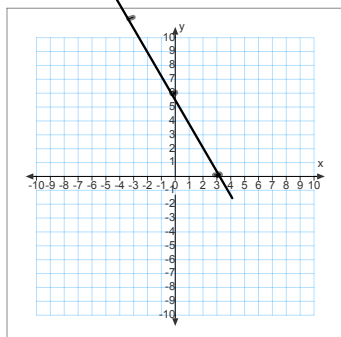
Practice

YOU TRY:

Step 2 - Make a table of values with the answers from step 1.

X	Y
-3	12
0	6
3	0

Step 3 - Plot the points on a grid. Join the points.



Discuss the ideas

1) The graph of an equation such as $3x - 2y = 6$ is a slanted or an **oblique line**. How are the equations for oblique lines different from the equations for horizontal lines?

$$y = 2$$

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CLASSWORK

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